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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/749,524	BRACKETT ET AL.	
Office Action Summary	Examiner	Art Unit	
	ROBERT TIMBLIN	2167	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perio  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION.  1.136(a). In no event, however, may a red will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION.  apply be timely filed  THS from the mailing date of this communic  ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>06</u> 2a)  This action is <b>FINAL</b> . 2b) ☑ The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matt	• •	ts is
Disposition of Claims			
4) Claim(s) 30-47 is/are pending in the applicat 4a) Of the above claim(s) is/are withdom 5) Claim(s) is/are allowed. 6) Claim(s) 30-47 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correction.  11) The oath or declaration is objected to by the	ccepted or b) objected to ne drawing(s) be held in abeyant ection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.12	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a limit	nts have been received. nts have been received in A iority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stage	<b>;</b>
Attachment(s)  1) M Notice of References Cited (PTO-892)		summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO/SB/08)     Paper No(s)/Mail Date	Paper No(s	s)/Mail Date formal Patent Application	

## **DETAILED ACTION**

This office action corresponds to application 10/749,524 which was filed 1/2/2004.

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/6/2011 has been entered.

#### Response to Amendment

In the reply filed 5/6/2011, claims 30, 36, and 42 have been amended. No claims have been added or canceled. Claims 30-47 currently stand pending.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30-32, 36-38, and 42-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rothschild et al. ('Rothschild' hereafter, U.S. Patent Application 2002/0016718) in view of Eldar et al. ("Eldar" hereafter, U.S. Patent 7,290,011).

With respect to claim 30, Rothschild teaches A computerized method for managing studies transferred from at least one acquisition device to a study process server in order to transfer the studies to at least one review station, the computerized method comprising:

without having previously distributed the studies to a review station (0144):

automatically sorting (0253 and Fig. 12; "The relational database may, for example, organize the images based on patient, study, sequence and image." Therein, organizing images is interpreted as sorting) the studies (0207, 0253, 0255; e.g. patient medical records and images) into a plurality of working sets (see 0253 wherein the images are organized based on patient, study, sequence, and image) at the study process server (0027; e.g. an iPACS Web server and Figs. 4 and 11-21; e.g. a medical image management system), each working set comprising a collection of studies (0246; e.g. a number of images) ready for review (0243, 0244; e.g. other patient files marked for delivery and are delivered) by at least one clinician (0167; e.g. the image delivery will take place in the background and be ready for physician or doctor review) as a set (0143; e.g. a set of images associated with a patient), and

automatically selecting a subset of studies from am first working set to be transferred to a review station (0242 wherein prefetch logic marks identified files for delivery and 0266 where all or part of the files are designated for the viewer), and

automatically transferring (0098; "A poll request from a viewer allows the data center to deliver the data to the remote viewer so that it is available at the remote viewer when a physician or other user needs it".) the subset (0242 and 0261; e.g. images marked for delivery) of studies (0242; e.g. files (images) marked for delivery) from a first working set (0143; e.g. a set of images associated with a patient) from the study process server (0027; e.g. an iPACS Web server

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and Figs. 4 and 11-21; e.g. a medical image management system) to a review station (viewing station 425, Fig. 11) such that the subset of studies from the first working set is available for review (0167; e.g. image delivery will take place in the background and be on the physician's desktop ready for review) at the review station (viewing station 425, Fig. 11) upon detecting a login (see 0085 teaching that a workstation polls for queued data upon occurrence of a predetermined triggering event such as a log in. See further paragraph 0264 wherein when an event such as logging in has occurred, a poller polls the data center for ready messages. Paragraph 0098 teaches that queued files are files ready for delivery. Accordingly, Rothschild teaches that marked images (e.g. a subset of patient images) that are ready for review are transferred upon detecting a log in), while delaying transfer of remaining studies in the first working set (0262-0264; e.g. files not marked for delivery are interpreted as not delivered and therefore delayed from transfer. Further, sender/receiver 441 waits for a poll request 543 before sending);

after completing transfer of the subset (Fig. 15B, drawing reference 533) of studies from the first working set to the review station (0264; e.g. the images have been received), monitoring the review station for clinician review of the subset of studies from the first working set (0264; e.g. "If it is the first viewing of the study 567 then a status message is sent to the data center that the study has been viewed 568". See also paragraph 0240 wherein programmed logic is provided to track the viewing of files);

detecting a clinician reviewing the subset of studies from the first working set at the review station (Fig. 15B, drawing reference 537 and 0240 wherein viewing of files are tracked); and

populating the review station with additional studies from the first working set (0265; e.g. periodically polling for ready messages and images. Therein it is interpreted that more images are retrieved).

Rothschild is interpreted to teach populating the review station with additional studies but does not appear to teach delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected and populating the review station with additional studies upon detecting the clinician reviewing the subset of studies from the first working set at the review station.

Eldar, however, teaches delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected (col. 11 lines 14-17, col. 13 lines 20-25) and populating the review station with additional studies (col. 13 lines 22-23; e.g. requesting additional ROIs (regions of interest) from the publication server) upon detecting the clinician reviewing the subset of studies from the first working set at the review station (col. 13 lines 6-23; "If there are additional requests for ROIs (i.e. the user continues to interact with the image) (step 138), then the method continues with step 136 and requests the additional ROIs from the publication server.") for sending additional regions of interest as a user interacts with a transmitted image.

Accordingly in the same field of endeavor, (i.e. transmitting patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the teachings of Eldar would have given a physician of Rothschild the ability to conveniently retrieve additional images of a patient when an image is being reviewed. Rothschild discloses such a need for additional

concern for bandwidth is disclosed).

regions of interest in paragraph 0143 (e.g. "...a set of images associated with a targeted region of a patient's body), when to poll for data (e.g. 0263), and further the need for convenience of obtaining images (0162). Moreover, the teachings of Eldar would have provided Rothschild with the benefit of overcoming the limitation of transferring studies over a slow connection (as provided by Eldar, col. 2 lines 39-41 and needed by Rothschild, paragraph 0171 wherein a

With respect to claim 31, Rothschild teaches the method of claim 30, further comprising distributing the subset of studies from the first working set to each of a plurality of review stations (0163).

With respect to claim 32, Rothschild teaches the method of claim 30, further comprising implementing a predictive algorithm to identify a set of review stations and distributing the subset of studies from the first working set to the identified review stations (0087; e.g. a push system for automatically sending image data).

With respect to claim 36, Rothschild teaches One or more computer storage media storing computer-useable instruction that, when used by a computing device, cause the computing device to perform a computerized method for managing studies transferred from at least one acquisition device to a study process server in order to transfer the studies to at least one review station, the computerized method comprising:

without having previously distributed the studies to a review station (0144):

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automatically sorting (0253 and Fig. 12; "The relational database may, for example, organize the images based on patient, study, sequence and image." Therein, organizing images is interpreted as sorting) the studies (0207, 0253, 0255; e.g. patient medical records and images) into a plurality of working sets (see 0253 wherein the images are organized based on patient, study, sequence and image) at the study process server (0027; e.g. an iPACS Web server and Figs. 4 and 11-21; e.g. a medical image management system), each working set comprising a collection of studies (0246; e.g. a number of images) ready for review (0243, 0244; e.g. other patient files marked for delivery and are delivered) by at least one clinician (0167; e.g. the image delivery will take place in the background and be ready for physician or doctor review) as a set (0143; e.g. a set of images associated with a patient), and

automatically selecting a subset of studies from am first working set to be transferred to a review station (0242 wherein prefetch logic marks identified files for delivery and 0266 where all or part of the files are designated for the viewer), and

automatically transferring (0098; "A poll request from a viewer allows the data center to deliver the data to the remote viewer so that it is available at the remote viewer when a physician or other user needs it".) a subset (0242 and 0261; e.g. images marked for delivery) of studies (0242; e.g. files (images) marked for delivery) from a first working set (0143; e.g. a set of images associated with a patient) from the study process server (0027; e.g. an iPACS Web server and Figs. 4 and 11-21; e.g. a medical image management system) to a review station (viewing station 425, Fig. 11) such that the subset of studies from the first working set is available for review (0167; e.g. image delivery will take place in the background and be on the physician's desktop ready for review) at the review station (viewing station 425, Fig. 11) upon detecting a

login (see 0085 teaching that a workstation polls for queued data upon occurrence of a predetermined triggering event such as a log in. See further paragraph 0264 wherein when an event such as logging in has occurred, a poller polls the data center for ready messages. Paragraph 0098 teaches that queued files are files ready for delivery. Accordingly, Rothschild teaches that marked images (e.g. a subset of patient images) that are ready for review are transferred upon detecting a log in) while delaying transfer of remaining studies in the first working set (0262-0264; e.g. files not marked for delivery are interpreted as not delivered and therefore delayed from transfer. Further sender/receiver 441 waits for a poll request 543 before sending);

after completing transfer of the subset of studies (Fig. 15B, drawing reference 533) from the first working set to the review station (0264; e.g. the images have been received), monitoring the review station for clinician review of the subset of studies from the first working set (0264; e.g. "If it is the first viewing of the study 567 then a status message is sent to the data center that the study has been viewed 568". See also paragraph 0240 wherein programmed logic is provided to track the viewing of files);

detecting a clinician reviewing the subset of studies from the first working set at the review station (Fig. 15B, drawing reference 537 and 0240 wherein viewing of files are tracked); and

populating the review station with additional studies from the first working set (0265; e.g. periodically polling for ready messages and images. Therein it is interpreted that more images are retrieved).

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Rothschild is interpreted to teach populating the review station with additional studies but does not appear to teach delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected and populating the review station with additional studies upon detecting the clinician reviewing the subset of studies from the first working set at the review station.

Eldar, however, teaches delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected (col. 11 lines 14-17, col. 13 lines 20-25) and populating the review station with additional studies (col. 13 lines 22-23; e.g. requesting additional ROIs (regions of interest) from the publication server) upon detecting the clinician reviewing the subset of studies from the first working set at the review station (col. 13 lines 6-23; "If there are additional requests for ROIs (i.e. the user continues to interact with the image) (step 138), then the method continues with step 136 and requests the additional ROIs from the publication server.") for sending additional regions of interest as a user interacts with a transmitted image.

Accordingly in the same field of endeavor, (i.e. transmitting patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the teachings of Eldar would have given a physician of Rothschild the ability to conveniently retrieve additional images of a patient when an image is being reviewed. Rothschild discloses such a need for additional regions of interest in paragraph 0143 (e.g. "...a set of images associated with a targeted region of a patient's body), when to poll for data (e.g. 0263), and further the need for convenience of obtaining images (0162). Moreover, the teachings of Eldar would have provided Rothschild

with the benefit of overcoming the limitation of transferring studies over a slow connection (as provided by Eldar, col. 2 lines 39-41 and needed by Rothschild, paragraph 0171 wherein a concern for bandwidth is disclosed).

With respect to claim 37, Rothschild teaches the one or more computer storage media of claim 36, further comprising distributing the subset of studies from the first working set to each of a plurality of review stations (0163).

With respect to claim 38, Rothschild teaches the one or more computer storage media of claim 36, further comprising implementing a predictive algorithm to identify a set of review stations and distributing the subset of studies from the first working set to the identified review stations (0087; e.g. a push system for automatically sending image data).

With respect to claim 42, Rothschild teaches A system for managing studies transferred from at least one acquisition device to a study process server in order to transfer the studies to at least one review station, the system including at least one processor and one or more computer storage media having a plurality of modules embodied thereon, the modules comprising:

a study sorting module (0240 and drawing reference 450) that automatically sorts (0253 and Fig. 12; "The relational database may, for example, organize the images based on patient, study, sequence and image." Therein, organizing images is interpreted as sorting) studies received by the study process server from the at least one acquisition device (0255 and drawing reference 411) into a plurality of working sets (see 0253 wherein the images are organized based

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on patient, study, sequence and image), each working set comprising a collection of studies (0246; e.g. a number of images) ready for review (0243, 0244; e.g. other patient files marked for delivery and are delivered) by at least one clinician (0167; e.g. the image delivery will take place in the background and be ready for physician or doctor review) as a set (0143; e.g. a set of images associated with a patient);

a study distribution (drawing reference 442 and 0243-0244; e.g. program logic that includes prefetch logic 445 and delivery logic) module that automatically selects a subset of studies from the first working set (0242 wherein prefetch logic marks identified files for delivery and 0266 where all or part of the files are designated for the viewer) and distributes and the subset of studies (0244 wherein the delivery logic identifies the files marked for delivery and submits them for delivery to a viewer) from a first working set to a review station such that the subset of studies from the first working set is available on demand for review by a clinician at the review station (0167; e.g. image delivery will take place in the background and be on the physician's desktop ready for review) while delaying transfer of remaining studies in the first working set (0262-0264; e.g. files not marked for delivery are interpreted as not delivered and therefore delayed from transfer. Further sender/receiver 441 waits for a poll request 543 before sending); and

a study control module (0104; e.g. a tracking system) that monitors the review station for clinician review of the subset of studies from the first working set after the subset of studies have been transferred to the review station (0264; e.g. "If it is the first viewing of the study 567 then a status message is sent to the data center that the study has been viewed 568". See also paragraph 0240 wherein programmed logic is provided to track the viewing of files).

Rothschild does not appear to teach delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected and causing additional studies from the first working set to be transferred to the review station upon detecting a clinician reviewing the subset of studies from the first working set at the review station.

Eldar, however, teaches delaying transfer until clinician review of the subset of studies form the first working set at the review station is detected (col. 11 lines 14-17, col. 13 lines 20-25) and causing additional studies from the first working set to be transferred to the review station (col. 13 lines 22-23; e.g. requesting additional ROIs (regions of interest) upon detecting a clinician reviewing the subset of studies from the first working set at the review station (col. 13 lines 6-23; "i.e. the user continues to interact with the image) (step 138), then the method continues with step 136 and requests the additional ROIs from the publication server.") for sending additional regions of interest as a user interacts with a transmitted image.

Accordingly in the same field of endeavor, (i.e. transmitting patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because the teachings of Eldar would have given a physician of Rothschild the ability to conveniently retrieve additional images of a patient when an image is being reviewed. Rothschild discloses such a need for additional regions of interest in paragraph 0143 (e.g. "...a set of images associated with a targeted region of a patient's body) and further the need for convenience of obtaining images (0162). Moreover, the teachings of Eldar would have provided Rothschild with the benefit of overcoming the limitation of transferring studies over a slow connection (as provided by Eldar, col. 2 lines 39-41 and needed by Rothschild, paragraph 0171 wherein a concern for bandwidth is disclosed).

With respect to claim 43, Rothschild teaches the system of claim 42, wherein the study distribution module distributes the subset of studies from the first working set to each of a plurality of review stations (0163).

With respect to claim 44, Rothschild teaches the system of claim 42, wherein the study distribution module implements a predictive algorithm to identify a set of review stations and distributes the subset of studies from the first working set to the identified review stations (0087; e.g. a push system for automatically sending image data).

Claims 33, 34, 39, 40, 45, and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Rothschild and Eldar and further in view of Cooke, Jr. et. al. ("Cooke" hereafter, U.S. Patent 6,574,629).

With respect to claim 33, Rothschild and Eldar do not appear to teach the method of claim 30, further comprising continuously monitoring the review station to determine if review of a study from the first working set has been completed and removing the study from the first working set after review of the study has been completed.

Cook, however, teaches continuously monitoring the review station to determine if review of a study from the first working set has been completed and removing the study from the first working set after review of the study has been completed (col. 21 lines 46-55) for deleting a study.

Accordingly, in the same field of endeavor, (i.e. patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Cooke would have given Rothschild and Eldar the ability to efficiently manage cache consumption in order to protect a cache from "overflowing" (as provided by Cooke col. 9 lines 35-42).

With respect to claim 34, Rothschild and Eldar do not appear to teach the method of claim 33, further comprising deleting the study from at least one other review station in response to determining that review of the study has been completed.

Cooke, however, teaches deleting the study from at least one other review station in response to determining that review of the study has been completed (col. 21 lines 46-55). Accordingly, as claim 34 depends upon claim 33, the same motivation used therein applies to this claim.

With respect to claim 39, Rothschild and Eldar do not appear to teach the one or more computer storage media of claim 36, further comprising continuously monitoring the review station to determine if review of a study from the first working set has been completed and removing the study from the first working set after review of the study has been completed.

Cooke, however, teaches continuously monitoring the review station to determine if review of a study from the first working set has been completed and removing the study from the first working set after review of the study has been completed (col. 21 lines 46-55) for deleting a study.

Accordingly, in the same field of endeavor, (i.e. patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Cooke would have given Rothschild and Eldar the ability to efficiently manage cache consumption in order to protect a cache from "overflowing" (as provided by Cooke col. 9 lines 35-42).

With respect to claim 40, Rothschild and Eldar do not appear to teach the one or more computer storage media of claim 39, further comprising deleting the study from at least one other review station in response to determining that review of the study has been completed.

Cooke, however, teaches deleting the study from at least one other review station in response to determining that review of the study has been completed (col. 21 lines 46-55. Accordingly, as claim 40 depends upon claim 39, the same motivation used therein applies to this claim.

With respect to claim 45, Rothschild and Eldar do not appear to teach the system of claim 42, wherein the study control module continuously monitors the review station to determine if review of a study from the first working set has been completed and removes the study from the first working set after review of the study has been completed.

Cooke, however, teaches continuously monitoring the review station to determine if review of a study from the first working set has been completed and removing the study from the first working set after review of the study has been completed (col. 21 lines 46-55) for deleting a study.

Accordingly, in the same field of endeavor, (i.e. patient studies), it would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Cooke would have given Rothschild and Eldar the ability to efficiently manage cache consumption in order to protect a cache from "overflowing" (as provided by Cooke col. 9 lines 35-42).

With respect to claim 46, Rothschild and Eldar do not appear to teach the system of claim 45, wherein the study is deleted from at least one other review station in response to determining that review of the study has been completed.

Cooke, however, teaches deleting the study from at least one other review station in response to determining that review of the study has been completed (col. 21 lines 46-55. Accordingly, as claim 46 depends upon claim 45, the same motivation used therein applies to this claim.

Claims 35, 41, and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Rothschild and Eldar and further in view of Fuller (U.S. Patent Application 2005/0050552)

With respect to claim 35, Rothschild and Eldar do not appear to teach the method of claim 30, further comprising monitoring the review station for a low buffer threshold and repopulating the review station with an additional subset of studies upon reaching the low buffer threshold.

Fuller, however, teaches monitoring the review station for a low buffer threshold and repopulating the review station with an additional subset of studies upon reaching the low buffer threshold (0019 and figure 3) to ensure requested data are available for immediate delivery.

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Fuller's system would have provided Rothschild and Eldar with enhancing the likelihood that the requested data are available for immediate delivery (Fuller, 0004). Thus, Fuller would have provided a method to further reduce image analysis to aid a busy physician (needed by Rothschild, 0162).

With respect to claim 41, Rothschild and Eldar do not appear to teach the one or more computer storage media of claim 36, further comprising monitoring the review station for a low buffer threshold and re-populating the review station with an additional subset of studies upon reaching the low buffer threshold.

Fuller, however, teaches monitoring the review station for a low buffer threshold and repopulating the review station with an additional subset of studies upon reaching the low buffer threshold (0019 and figure 3) to ensure requested data are available for immediate delivery.

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Fuller's system would have provided Rothschild and Eldar with enhancing the likelihood that the requested data are available for immediate delivery (Fuller, 0004). Thus, Fuller would have provided a method to further reduce image analysis to aid a busy physician (needed by Rothschild, 0162).

With respect to claim 47, Rothschild and Eldar do not appear to teach the system of claim 42, wherein the study control module monitors the review station for a low buffer threshold and re-populates the review station with an additional subset of studies upon reaching the low buffer threshold.

Fuller, however, teaches monitoring the review station for a low buffer threshold and repopulating the review station with an additional subset of studies upon reaching the low buffer threshold (0019 and figure 3) to ensure requested data are available for immediate delivery.

It would have been obvious to one of ordinary skill in the data processing art at the time of the present invention to combine the teachings of the cited references because Fuller's system would have provided Rothschild and Eldar with enhancing the likelihood that the requested data are available for immediate delivery (Fuller, 0004). Thus, Fuller would have provide a method to further reduce image analysis to aid a busy physician (needed by Rothschild, 0162).

#### Response to Arguments

Applicant's arguments filed 5/6/2011 have been fully considered but they are not persuasive.

On page 10 of the remarks, Applicant submits that there is nothing in Rothschild to indicate that the files sent and the files not sent are from the <u>same</u> working set.

Examiner respectfully disagrees and submits that files marked (and not marked) as ready for delivery pertain to the same patient and thus same working set. See paragraph 0243 specifying that the prefetch logic, which marks files ready for delivery, identifies other related

patient information as information ready for delivery. Since the working set has been interpreted as patient records, a collection of this information that has been identified as ready for delivery is delivered while conversely, the information not marked for delivery is not delivered.

Applicant further argues that a working set comprises a collection of studies ready for review. As submitted above, a set of patient records (working set) includes some files marked ready for delivery (to be reviewed) and some not. Therefore, a collection that is ready for review is within the working set.

On page 11 of the remarks, Applicant argues that Rothschild does not teach the "delaying transfer..." aspect. Examiner respectfully disagrees and submits this element is found within Rothschild as files not marked for delivery are not sent. Furthermore, Eldar is seen to also teach delaying and transferring additional studies upon detecting user review (see above).

Applicant also notes on page 11 that all files in the process of marking for delivery are marked. Examiner respectfully disagrees and submits that files are selected and marked for delivery based on a verification process (see paragraphs 0242 and 0261). Accordingly some, not all, files are marked for delivery.

On pages 11-12, Applicant submits that Eldar sends all images to a review station. Examiner respectfully disagrees and submits that Eldar teaches a pull mode that retrieves additional ROIs upon detecting user interaction (see paragraph 13, lines 3-28). Therein, as a user

interacts with an image, additional requests are sent for more information. Here, a subset is transferred and additional data is sent only in response to user interaction.

Lastly, on page 14, Applicant argues with respect to claims 34, 40, and 46 that Cook is silent as to deleting the study from another station's cache based on the review and deletion from the first station.

Initially, Examiner notes that the "based on the review and deletion from the first station" is not recited or clearly implied in these claims; however, they do recite "deleting the study from at least one other review station in response to determining that review of the study has been completed"

Examiner submits that Cooke teaches multiple review stations (col. 21 line 47-50) and wherein on any of those stations, studies that have been reviewed are deleted. Accordingly, Cooke is seen to teach multiple review stations deleting a studying when it is determined that the study has been reviewed.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. Patent 6,339,767 to Rivette et al. The subject matter disclosed therein pertains to the pending claims (i.e. retrieving additional data in response to user interaction).
- U.S. Patent 5,946,682 issued to Wolfe et al. The subject matter disclosed therein pertains to the pending claims (i.e. preloading information (such as a view) from a set (such as a

document) and transferring additional information in response to a user's viewing behavior. See Figs 4-5, abstract, and col. 2 lines 45-59).

U.S. Patent Application 2003/0041106 filed by Tuli. The subject matter disclosed therein pertains to the pending claims (i.e. delaying the transfer of information until user activity such as (scrolling or clicking) is identified – see 0052).

U.S. Patent 6,243,755 issued to Takagi et al. The subject matter disclosed therein pertains to the pending claims (i.e. prediction logic).

U.S. Patent Application 2002/0198991 filed by Gopalakrishnan et al. The subject matter disclosed therein pertains to the pending claims (i.e. prediction logic).

U.S. Patent Application 2005/0086344 filed by Suesserman. The subject matter disclosed therein pertains to pending claims 34, 40, and 46 (i.e. synchronizing changes on clients).

## **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT TIMBLIN whose telephone number is (571)272-5627. The examiner can normally be reached on M-Th 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/ROBERT TIMBLIN/ Primary Examiner, Art Unit 2167